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ENVIRONMENTAL IMPACT REPORT FOR KINGSTON-BEDFORD/PARCEL 18 DEVELOPMENTS

Mr. Stephen Coyle, Director
Boston Redevelopment Authority
One City Hall Square
Boston, MA 02201
ATTN: Mr. R. Mertens

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PROPOSAL

WCH Industries, Inc., scientists, engineers and management specialists

WCHI
anagement Consultants

SCIENCE • ENGINEERING • ANALYSIS

July 11, 1986

Mr. Stephen Coyle, Director
Boston Redevelopment Authority
One City Hall Square
Boston, MA 02201

ATTENTION: Mr. Richard Mertens

REFERENCE: Proposal to Prepare Environmental Impact Reports on the Proposal for Parcel-to-Parcel Linkage Developments of Parcel 18 and the Kingston/Bedford Garage Site

Dear Mr. Coyle:

WCH Industries, Inc. (WCHI), in association with Sasaki Associates, Inc. (Sasaki) is pleased to submit this proposal to prepare Environmental Impact Reports (EIR's) for the above referenced parcel sites. The WCHI/Sasaki team offers outstanding credentials in the preparation of EIR's and looks forward to working with the BRA staff on the preparation of these reports.

The project team is fully committed at top management levels to the conduct of the EIR's in the most efficient and effective manner consistent with performing a thorough job by insuring that all issues are properly considered. The consideration of the complexity of some of the issues and the need to insure that public opinion is adequately addressed, we have proposed that the project duration be for a period of 12 weeks from the notice to proceed.

In addition to the alternatives reflected in the ENF's, the project team will consider at least one additional alternative together with impacts associated with that alternative.

Again, we are pleased to submit this proposal and look forward to working with your staff on this project.

Sincerely,

WCH Industries, Inc.

Wm C Harrison

WILLIAM C. HARRISON
President

WCH:tac

Enclosures.

WCH Industries, Inc., 14 Felton Street, Waltham, MA · (617) 894-7022

Proposal

ENVIRONMENTAL IMPACT REPORT
FOR
THE KINGSTON/BEDFORD/PARCEL 18
DEVELOPMENTS

Submitted to:

Mr. Stephen Coyle, Director
Boston Redevelopment Authority
One City Hall Square
Boston, MA 02201
ATTN: Mr. Richard Mertens

Submitted by:

WCH Industries, Inc.
14 Felton Street
Waltham, MA 02154

In association with:

Sasaki Associates, Inc.
64 Pleasant Street
Watertown, MA 02172

Date: July 11, 1986

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INTRODUCTION

WCH Industries, Inc. (WCHI), in association with Sasaki Associates, Inc. (Sasaki) is pleased to respond to the Boston Redevelopment Authority's (BRA) invitation to submit a preliminary proposal to prepare an Environmental Impact Report (EIR) for the proposed developments of Parcel 18 at Melnea Cass Boulevard, Tremont Street and Ruggles Street in Roxbury, and the Kingston/Bedford Garage site in downtown Boston, MA. For the purposes of this assignment, WCHI will serve as the prime contractor directing the project and providing overall project management.

In responding to the BRA requirements for a technically proficient team to conduct the EIRs for these major developments, a project team of in-house staff and subconsultants with exceptional expertise in each of the required disciplines has been assembled. This team consists of the management and technical resources of WCHI and Sasaki together with a few highly qualified subconsultants for specialty areas.

Mr. William C. Harrison, President of WCHI, will serve as Principal-In-Charge and Project Director for this project. He has a background in biology and extensive environmental experience in both the public and private sectors. Mr. Harrison will provide overall management supervision of the project and direct all project efforts so that they are performed on a timely basis and in a professional manner. Mr. Richard Galehouse, Principal at Sasaki, will serve as Project Advisor to Mr. Harrison for Architecture and Urban Design. A Project Planner will be assigned to each project. Ms. Melba Wood of WCHI will serve as Project Planner for Parcel 18 and Mr. James Doolin of Sasaki will serve as Project Planner for the Kingston/Bedford Garage site. Key personnel who will contribute to the development of the EIR include:

WCHI

- Mr. William Harrison - Principal-In-Charge, Project Director: Assessment of Alternatives and Public Participation
- Ms. Melba Wood - Project Planner: Project Coordination, Socioeconomic Impacts and Public Participation
- Mr. Charles Levy, P.E. - Hazardous Waste/Solid Waste, Air Quality and 21 E Investigation
- Mr. Al Pansey, P.E. - Energy Use Impacts
- Mr. Ed Luttner - Water Quality, Supply and Use
- Mr. Wendell Canada - Graphics

Sasaki

Mr. Richard Galehouse	Senior Project Advisor
Mr. James Doolin	Project Planner, Project Coordination and Public Participation
Mr. Thomas Wang	Project Urban Designer for Open Space, Recreation, and Aesthetics
Mr. Barry Pell	Project Transportation Engineer for Traffic
Ms. Rebecca Longley	Noise Specialist for Noise Analysis
Mr. Maurice Ponti	Geologist for Assessment of Geologically Unstable Areas

In order to carry out this assignment, the professional resources of the two offices will be combined under Mr. Harrison's overall direction. A general division of labor will be made utilizing the strengths of each office by assigning the primary responsibility for discrete tasks to one office with the second office providing support. The preliminary assignment of responsibility will be as follows:

	WCHI	Sasaki
Open Space and Recreation	Secondary	Primary
Chemical, Hazardous Waste & Risk	Primary	Secondary
Geologically Unstable Areas	Secondary	Primary
Energy Use	Primary	Secondary
Water Quality, Supply and Use	Primary	Secondary
Air Quality	Primary	Secondary
Noise	Secondary	Primary
Traffic	Secondary	Primary
Solid Waste	Primary	Secondary
Aesthetics	Secondary	Primary
Wind and Shadow	Secondary	Primary
Growth Impacts	Primary	Secondary
Community/Housing and the Built Environment	Primary	Secondary

(Other administrative, planning and technical functions not reflected above, but whose roles are essential for completion of the EIR, have also been allocated to the respective team members.)

In addition to the professional resources of WCHI and Sasaki, the following additional subconsultants may be required:

- Wind tunnel analysis - MIT-Wright Laboratory of Cambridge, Massachusetts or Morrison-Hershfield, Ltd. of Toronto, Canada
- Soil borings - Haley and Aldrich, Inc. of Cambridge or Goldberg-Zoino and Associates, Inc. of Newton
- Development analysis - Scott Toombs of Philadelphia, PA

SCOPE OF WORK

The WCHI/Sasaki team of environmental specialists, community/urban planners, economists, analysts, architects, urban designers, and chemical/civil/traffic engineers will conduct the investigations for assessing the environmental impacts associated with the planned developments of the Kingston/Bedford Garage Site and Parcel 18. This proposal is based upon our understanding of the project needs and prior work experience on similar projects. The scope of work is described below and divided into the following tasks: Task 1, Preparation and Finalizing of Work Plan; Task 2: Data Collection; Task 3: Development and Analysis of Environmental Impacts; Task 4: Definition and Evaluation of Alternatives; Task 5: Gathering of Pubic Opinion; Task 6: Recommendation; Task 7: Recommendation for the Preferred Alternative; Task 8: Participation in Meetings, Conferences and Presentations.

Task 1: Prepare and Finalize Work Plan

Upon receipt of the MEPA Certificate on the ENFs, a final work plan outlining tasks and schedules will be prepared. This work plan will reflect the details of the schedule and highlight work assignments.

Task 2: Data Collection

The project team will collect available data from the BRA and other agencies including federal, state and local agencies. In addition to the collection of the existing data, some information pertinent to the assessment will be generated (i.e., traffic studies, geotechnical studies, alternative designs, etc.). This new data together with existing information will provide the data base from which impact assessments can be made.

Task 3: Development and Analysis of Environmental Impacts

The project team will develop potential environmental impacts and analyze such impacts in accordance with MEPA (G.L., c.30, s.62-62H) and the regulations implementing MEPA (301 CMR 10.00).

- Project Description - The project description will include detailed information on the project including history and the project background; a discussion of project alternatives that have previously been considered and/or rejected; and a statement of the project objectives as they relate to the BRA's goals for the site and the area.

- Open Space Recreation - An inventory of open space and recreational sites in the vicinity of the project will be made. This will also include an assessment of the adequacy of existing resources in the communities to meet the needs of the new developments.

- Chemicals, Hazardous Waste and Risk Operations

  The project team will conduct investigations to determine the presence of chemicals, hazardous waste and risk operations at the project sites and the assessment of impacts associated with such presence. A 21 E investigation is proposed as a separately costed project and is not part of this proposal.

- Geology and Groundwater - The project team will collect geological information, groundwater/hydrological information and foundation conditions from existing reports. This information will be used to constitute an existing baseline for evaluation of the project site. Should existing borings be required for an adequate assessment of the project site, the project team will recommend contracting such geotechnical services to a qualified geotechnical firm (i.e., Haley & Aldrich, Inc., or Golberg Zoino and Associates, Inc.) These services would represent an additional cost to the project.

- Air Quality - The project team will assess the results of the traffic analysis for those intersections experiencing an E Level of service or worse. With a 10 percent volume increase due to the project, a carbon monoxide analysis will be required. The analysis will include existing and future conditions, and will employ standard computer modeling techniques using the latest accepted emission factors.

- Water Quality, Supply and Use - The project team will collect and evaluate information on the water quality, quantity and its use. Information pertaining to stormwater runoff, drainage, erosion, sewage disposal and control strategies is important to this evaluation. Water demand and supply as well as capacities will also be assessed.

- Energy Use - The project team will evaluate the increased consumption of fuels that will result from the proposed development. Cost-efficient energy systems design, will be considered as mitigating measures to the increased level of energy consumption.

- Noise - The project team will assess construction-related noise disturbances and recommend measures to alleviate disturbances. The long-term affects of the project via traffic-generated noise will be assessed with the use of the latest Housing Urban Development Guidelines.

- Traffic - The project team will prepare a traffic and parking assessment of the alternatives suggested by the BRA, and at least one alternative developed by the project team.

- Solid Waste - The project team will assess the short and long-term impacts of increased waste materials created by construction activities and by use of the facilities following construction.

- Aesthetics and Visual Quality - The project team will assess the aesthetics and visual quality proposed by the development, as compared to the existing surroundings in terms of scale, massing, envelope, and views to and from the surrounding neighborhood. Drawings, renderings, and photographs will be prepared to reinforce this assessment.

- Wind and Shadow - As an alternative to a wind tunnel analysis, the project team suggests that either MIT-Wright Laboratory of Cambridge, Massachusetts, or Morrison-Hershfield, Ltd. of Toronto, Canada provide a brief assessment that will be integrated into the Draft Environmental Impact Report (DEIR) as an additional service and cost to the project. Should the results of the analysis indicate an in-depth wind tunnel analysis is needed, this could be provided by the selected subconsultant as an additional service and cost to the project and appended to the Final Environmental Impact Report (FEIR).

  A shadow study (drawings) will be included in the DEIR. The shadow study will include shadows cast by the proposed building on specific dates and times of the year, as requested by MEPA and the BRA. The project team will evaluate these drawings and prepare text to be included in the DEIR.

- Growth Impacts - The project team will assess the impacts of population and activity growth that result from the proposed developments.

- Community/Housing and the Built Environment - The project team will assess the surrounding land use and socioeconomic factors (population, housing and employment) to determine the impacts that will result from the proposed project. Special consideration will be given to potential impacts dealing with displacement, population changes, and community economics that may be of concern to the local communities.

Task 4: Definition and Evaluation of Alternatives

The project team will define the alternatives including the Alternatives suggested by the BRA and at least one additional Alternative offered by the project team. The team will assess the environmental impacts associated with each Alternative. As a part of this process, the team suggests that a development consultant such as Scott Toombs be hired as an additional service and cost to the project for the assessment of the marketability and financial viability of the proposed developments.

Task 5: Gathering of Public Opinion

The project team will design a program to collect and assess public information. This program will include provisions for local citizens to submit both written and verbal comments regarding the proposed developments. A continuing dialogue will be established and maintained with local citizen groups throughout the 3-month period of the draft environmental assessment process, for exchange of views and discussion of concerns with these groups regarding the potential effects of the proposed developments on their neighborhoods. In addition to this continuing dialogue which may include periodic meetings and briefings with selected citizen groups, three (3) full public participation meetings, which will be highly publicized, will be held in each of the two communities affected by the developments. In an attempt to provide easy access of the team to the community groups and citizens, a project office will be established and fully manned in the potentially impacted area. This office will serve as the focal point for collecting information, coordinating project activities and assessing alternatives.

Task 6: Recommendation

The results of the impact evaluations, including input from the public, will be used to evaluate the various Alternatives with the end result being a selected Preferred Alternative.

Task 7: Preparation of the DEIR

The project team will compile the results of Tasks 1 through 6 in a Draft Environmental Impact Report (DEIR). This DEIR will include quality text photographs, renderings and graphics for use in the MEPA review process.

Task 8: Participation in Meetings, Conferences and Presentations

The project team will attend a number of meetings and presentations with Agency personnel. This proposal includes the attendance to the following meetings with an average of three persons each:

- BRA Project scoping meetings - 2

- BRA Project staff meetings - 4
- Presentations to BRA staff - 2
- Other meetings/conferences - 3

(These meetings are in addition to the public participation meetings reflected in Task 5, Gathering of Public Opinion.)

RESUMES OF KEY PERSONNEL

The resumes on the enclosed sheets represent professional personnel from the WCHI/Sasaki team whose expertise will be essential to the development of the DEIRs for the proposed Parcel 18 and Kingston/Bedford Garage Sites.

STAFF ASSIGNMENTS BY AREA OF PRIMARY RESPONSIBILITY

PRINCIPAL OVERVIEW, PLANNING, URBAN DESIGN, AND ENVIRONMENTAL ANALYSIS

BILL CLARK HARRISON

POSITION	President, WCH Industries, Inc.
EDUCATION	Ph.D. Work, Environmental Biology/ University of Maryland MBA, Management/Babson College M.S., Environmental Biology/ Washington State University B.S., Environmental Biology/ Southern University
YEARS EXPERIENCE	25

PROFESSIONAL EXPERIENCE

As founder and president of WCH Industries, Inc., Mr. Harrison (a former Army Lieutenant Colonel) is personally responsible for the overall technical, financial and administrative management of the firm. His success in establishing WCH Industries as a professional consulting firm is based upon his extensive experience in the management of diverse, interdisciplinary projects acquired during 20 years of military service.

Mr. Harrison has successfully performed a wide variety of duties under broad and comprehensive authorities, including serving as a Base Commander, as a Laboratory Director, as a Commander of a special combat training team in South Vietnam, as a Group Deputy Commander for R&D systems, as a training coordinator for all NBC activities in the First U.S. Army area, as Security Director in a major command and as a Logistics and Training Director for a military installation. His expertise in materials engineering, NBC sciences, nuclear weapons, sensor systems, developmental research, system analysis, logistics, training, energy systems, operations research statistics and business management is extensive.

Mr. Harrison has participated in studies involving surveying, operations analysis, life-cycle costing, cost/benefit analysis, economic analysis, space utilization, statistical sampling, project planning, milestone scheduling, and forecasting. He, on one project, spear-headed the development of requirements for optimizing the utilization of physical space by personnel and equipment for a Research Center. He also provided the leadership, on another project, for an energy efficient project for an Army Base.

Mr. Harrison recently participated in the conduct of an industrial pretreatment survey for the Town of Lynn, MA. This project required that a questionnaire be prepared regarding industrial and commercial pollution dischargers in the town. The questionnaire was forwarded to industrial and commercial clients for completion and return for analysis and report of findings. Similar survey documents are prepared and used

in the performance of a number of recently completed environmental baseline projects environmental baseline projects undertaken by the company.

Mr. Harrison has extensive experience in hazardous waste management, some gained during his 20 years in the Army Chemical Corps and others gained as leader of WCHI. He has performed a number of jobs involving the handling, controlling and disposing of chemical, biological and radiological substances. Responsibilities included developing plans, policies and procedures for use, control and disposal of these substances to include protective measures to be employed, protective equipment (protective clothing, shoes, masks, gloves, etc.) to be used and employment of detection equipment. Specific assignments included those related to chemical munitions leak tests; explosive ordnance control and disposal; defoliation studies; radioactive site equipment surveying; toxic chemical use and disposal; depleted uranium use, control and disposal; control and disposal of chemical and biological bombs/bomblets; decontamination of major equipment; use and disposal of riot control agents; disposal of waste oils; disposal of plating and laboratory toxic wastes; and control of radioactive source sets.

Mr. Harrison has spearheaded a number of training programs. He developed and staffed four (4) schools for training personnel in the use and defense of chemical, biological and radiological agents in the states of New York, Virginia, Georgia and Mississippi. He directed the development of a training requirement for the establishment of a training program for health professionals including the development of the materials/logistics package for the Health Resources Administration. He also conducted numerous training programs involving chemical, biological and radiological agents at a number of military installations within the United States and abroad.

Mr. Harrison, a school-trained specialist in the preparation of environmental impact statements/assessments, has participated in the preparation of a number of environmental planning and design projects. These have included a U.S. Air Force EIS involved with the preparation of a clearance document for the OTH-B Radar System on socio-economic, biophysical, water/air pollution, transportation, and human health impacts; an East Boston, MDC Environmental study; a Squantum Site Sludge facility study; a Braintree-Weymouth interceptor system study; an EIR for MASSPORT which involved a proposed project to develop a new Seaport Facility at the South Boston Naval Annex; and a number of other similar projects. These and other projects have required concurrent public participation programs involving extensive citizen participation.

RICHARD F. GALEHOUSE, AICP
Principal

Education

Harvard University Graduate School of Design, Master of City and Regional Planning, 1960.

University of Notre Dame, Bachelor of Architecture, 1956.

Professional Affiliations

American Institute of Certified Planners, Member
Institute for Urban Design, Member
Society for College and University Planning, Member
Urban Land Institute, Urban Development/Mixed-Use Council, Member

Academic Positions

Harvard Graduate School of Design, Visiting Lecturer, Department of Landscape Architecture. Visiting Critic: Harvard Graduate School of Design, University of Massachusetts, University of Rhode Island, Rhode Island School of Design, Louisiana State University.

Publications

"Mixed-Use Centers in Suburban Office Parks: Princeton Forrestal Center and Denver Tech Center," Urban Land, August 1984.
"Land Planning for Large-Scale Residential Development," Urban Land, October 1981.
"Adirondack High," Urban Land, January 1980.
"How the Ski Jump Uproar Was Resolved," Landscape Architecture, 1980.
"Kingsmill on the James River," Landscape Architecture Quarterly, 1975.

Awards

American Society of Landscape Architects, Bradford Williams Medal, 1980

Presentations

Harvard University Graduate School of Design, "Case Studies in Urban Design--The Fort Lauderdale Riverwalk Plan," December 1985.

American Planning Association, Florida Chapter Annual Conference, "Planning Open Spaces for Public Use: Dade County Government Center, Miami--A Case Study," November 1985.

Society of Industrial Realtors, Seminar on Corporate Asset Management, Keynote Speaker, November 1985.

Urban Land Institute, "Design and Planning Issues Related to Mixed-Use Developments," Roundtable Discussion Participant, June 1985.

American Society of Real Estate Counselors National Convention, Seminar on Corporate Asset Management, Keynote Speaker, April 1985.

Urban Land Institute Seminar on Mixed-Use Development, "Planning and Design Considerations in Large-Scale Mixed-Use Development," Seminar Speaker, December 1983.

Role at Sasaki Associates, Inc.

Mr. Galehouse serves as Principal-in-Charge on many of the firm's planning and urban design projects. He is currently Principal-in-Charge of the Planning and Urban Design Department and a member of the corporation's Executive Group.

Mr. Galehouse established the firm's Coral Gables, Florida office in 1975 and served as Principal-in-Charge until 1982.

Professional History

Mr. Galehouse has been with the firm since 1960, and in his more than 25 years of professional work he has directed many complex urban, new community, resort, campus, and regional and environmental planning and design projects throughout the United States and Caribbean Islands. Many of the projects under Mr. Galehouse's direction have required ongoing involvement of the firm from initial planning through project design services.

Mr. Galehouse has served as guest lecturer and critic at colleges, universities, and professional organizations, and has provided expert testimony on community visual and environmental impact issues. He was recently quoted in an article entitled, "Back to the Suburbs: A Spate of Office Construction Causes Clashes in the Countryside," which appeared in the April 21, 1986 issue of Newsweek magazine.

Project Experience

In addition to his other responsibilities, Mr. Galehouse is Principal-in-Charge of a selected number of projects. His recent work with planning for mixed-use development includes the 130-acre Forrestal Village at the Princeton Forrestal Center in Princeton, New Jersey; the 4 million square foot Virginia Center, located on a 61-acre site adjacent to the Vienna Metro Station in Fairfax County, Virginia; the 60-acre Gulfstream Mixed-Use Center in Jacaranda, a large-scale new community in Plantation, Florida; and the Village Center at the 1000-acre Metropolitan Corporate Center in Marlborough, Massachusetts.

Recent urban planning/design projects under Mr. Galehouse's direction include the urban design and development plan for the Riverwalk, a mile-long development corridor astride the New River in downtown Fort Lauderdale, Florida, and preparation of a master development plan for Fort Lauderdale's central beach area.

Recent institutional project experience includes the master plan for the $41 million expansion of Western Wyoming College in Rock Springs, Wyoming, and the master plan for George Mason University's 565-acre campus in Fairfax County, Virginia.

Mr. Galehouse's experience in large-scale planning for office and business parks includes the Gulfstream 178-acre business park in Jacaranda, Florida; Whitehall Park, an 800-acre development being planned by Charles Fraser in Charlotte, North Carolina; the 620-acre Fairlakes business park in Fairfax County, Virginia; Electronic Data Systems' executive office park on 2600 acres near Dallas, Texas; Dartmouth College's proposed 2500-acre business park in Lebanon, New Hampshire; and the 1000-acre Metropolitan Corporate Center in Marlborough, Massachusetts.

Public policy and other special projects include the master plan for the Sepulveda River Basin in Los Angeles for the Army Corps of Engineers, as part of the planning for the 1984 Summer Olympics.

PLANNING AND COMMUNITY PARTICIPATION

MELBA G. WOOD

POSITION	Operations Research Specialist WCH Industries, Inc.
EDUCATION	M.S., Systems Engineering/ Howard University B.A., Economics/Spelman College
YEARS EXPERIENCE	11

PROFESSIONAL EXPERIENCE

Ms. Wood, a systems engineer at WCH Industries, Inc., has coordinated and/or participated in a number of technical studies involving risk management, operations research, statistics, economic analysis, hazard analysis, technological assessment, waste management, and environmental assessments. These have been performed as a systems engineer, operations research specialist, economist, management analyst and environmental specialist at WCHI and her previous employer, Arthur D. Little, Inc.

Ms. Wood's principal areas of concentration has included studies in the environmental, transportation, and economic fields. Tasks in the environmental area have included:

- Conduct of an environmental impact analysis on an AF project where she contributed to the area involving socioeconomic factors including land use, population, housing, employment and community services & facilities

- Evaluation of a solid waste management system for a site development evaluation

- Conduct of an environmental impact report for MASSPORT with contributions to sections dealing with land use, population, housing, employment and the community infrastructure

- State-of-the-art environmental planning and engineering design of a landfill for waste disposal methods including regulatory criteria development

- Socioeconomic studies, identification of population bases and ignition sources for an environmental impact statement for an LNG site location

- EPA priority pollutants study including retrieval and statistical analysis for water quality monitoring data

Tasks in the hazardous waste and transportation area include:

- Characterization of practices involving "for-hire" motor carriers of hazardous waste
- Collection of transportation costs for hazardous waste transport
- Development of vehicle scenario models for hazardous waste transport
- Market and routing studies for several large marine and inland transportation companies

Tasks in the economic area include:

- Supply and demand analysis of the paper industry recycling operations
- Economic analysis of chemical-related industries
- Cost/benefit analysis study for energy related project
- Analysis and evaluation of COM technology.

JAMES PATRICK DOOLIN

Education

University of Pennsylvania, Master of Regional Planning, 1978.

University of Connecticut, Bachelor of Science in Natural Resources, 1975.

Professional Affiliations

American Institute of Certified Planners, Member

American Planning Association, Member

Academic Positions

University of Pennsylvania, Department of Landscape Architecture and Regional Planning, Research Assistant, 1977-78.

Role at Sasaki Associates, Inc.

Mr. Doolin serves as a multidisciplinary planner and Project Manager. He provides expertise on diverse assignments including land use planning, environmental documentation, institutional planning and urban design projects. Mr. Doolin joined the firm in 1985.

Professional History

Mr. Doolin has over six years of professional experience. Prior to joining Sasaki Associates, he was responsible, as a Project Manager, for the completion of a range of private development projects in California. Among others, these included a 960-acre, mixed-use feasibility study in San Diego County; 300 acres in Orange County planned for 1,600 units of mixed income housing; and a 125-acre specific plan for a recreation-oriented residential community in Corona, California.

Mr. Doolin has overseen the strategy and execution of a broad scope of public planning documents. Projects included the coordination of a redevelopment plan for the commercial fishing industry at the Port of Los Angeles, California; a Town Center Master Plan for land use and urban design in the City of Santee, California; comprehensive land use and policy planning for the California city of Buena Park; and participation in the review of growth management strategies for the City of San Diego, California.

While with the State of Maryland, Mr. Doolin prepared water quality management plans for the Susquehanna and Elk Rivers which addressed a variety of environmental and land use issues of local and statewide significance.

Project Experience

Mr. Doolin has played a major role in a variety of projects including university master plans, environmental studies and urban design projects. His institutional work includes serving as Project Manager of the master plan for George Mason University in Fairfax, Virginia, which will accommodate the substantial expansion of existing campus facilities and enrollment, as well as preparing a development strategy for the university's 200 acres of adjunct campus lands. Mr. Doolin also directed the study of significant building sites for Boston's Northeastern University, which addressed key urban design issues of land use, scale and massing, pedestrian linkage and vehicular access in the context of a master plan process.

Mr. Doolin served as Project Manager of the firm's multidisciplinary subconsultant team for development of a state-of-the-art automobile sales and service facility for General Motors Corporation, which addressed both operational and design solutions for urban car dealerships. The project, located in the New York City area, provided innovative recommendations for urban site planning, retail sales programming, architectural treatment and financial performance.

Mr. Doolin's other project experience includes documentation of environmental impacts on public services and facilities for a 280-unit, mixed-income housing development in downtown Boston.

URBAN DESIGN / ARCHITECTURE

ALAN L. WARD
Principal

Education

Harvard University, Graduate School of Design, Master in Landscape Architecture, and Advanced Photographic Studies at Massachusetts Institute of Technology, 1978.

University of Cincinnati, College of Design, Architecture and Art, Bachelor of Architecture, 1974.

Professional Affiliations

American Society of Landscape Architects
Institute for Urban Design
Urban Land Institute

Academic Positions

Harvard University Graduate School of Design, Assistant Professor of Landscape Architecture, 1981-82, and Critic in Landscape Architecture, 1982-83.
College of Architecture and Planning, Ball State University, Instructor in Architecture, 1974-76.

Publications

"Spring Grove Cemetery, The Role of the Rural Cemetery in American Landscape Design" with B. Linden-Ward, Landscape Architecture, September/October 1985.

"Urban Design Traditions in Practice Today," Urban Design Review, Fall 1983.

Related Professional Activities

Landscape and architectural photographer with photographs published in Architectural Record, Historic Preservation, House and Garden, Landscape Architecture, New York Times, and other periodicals and books. One man shows including "Nature By Design: The Art and Landscape of Cincinnati's Spring Grove" (1985) at the Taft Museum in Cincinnati, and "Built Landscapes: Five Gardens in the Northeast" (1984) at Harvard University and travelling nationally. Co-recipient of 1984 ASLA Honor Award in Design Communications for "Built Landscapes" exhibit and catalogue.

Role at Sasaki Associates, Inc.

Mr. Ward is a participating principal on planning, landscape, architectural and urban design projects providing design leadership and overview on a variety of projects ranging from large-scale urban developments to resort planning and design.

Professional History

Mr. Ward's eight years of professional practice has included downtown development feasibility studies, district wide planning and urban design, planning and design of mixed-use centers and urban waterfronts, and the design of new and historic urban open spaces.

Before coming to Sasaki Associates in 1978, Mr. Ward was an urban designer with the Community Development Department of the City of Cambridge, Massachusetts. He worked on transit-related development projects in Cambridge including the urban design plan for the Alewife Area, the recipient of a HUD Urban Environmental Design National Award.

Project Experience

Mr. Ward was urban designer for the Dallas Arts District, a 17-block mixed-use redevelopment plan in the downtown, and was involved in the participatory planning process with property owners, the city, and various arts groups in arriving at a consensus plan. He was urban designer for the Dallas Town Lake feasibility study, considering the creation of a three-mile-long lake and waterfront, and the New River Urban Design Study, a mile-long corridor in downtown Fort Lauderdale, Florida.

Mr. Ward served as urban designer for several large suburban mixed-use development projects including: Princeton Forrestal Village, a 130-acre commercial focus of the Forrestal Center on Route One in Princeton, New Jersey; a 20-acre complex at the Denver Tech Center in Denver, Colorado; and Virginia Center, a 3 million square foot project at the terminus of the Washington Metro in Fairfax County, Virginia.

Mr. Ward was project designer for the Downtown Government Center Open Space, the 10-acre center of a new district in Miami, Florida. He was project designer for several projects in Buffalo, New York including the development of a weather-protected pedestrian system, an update of the Theater District Plan, and the design of Lafayette Square.

Mr. Ward has been project designer for several resort developments including Le Rivage master plan, 1350 luxury condominiums in Key Biscayne, Florida, and Old Fort Bay, an 800-acre destination resort on New Providence Island in the Bahamas.

THOMAS C. WANG, ASLA
Associate

Education

Harvard University Graduate School of Design, Master of Landscape Architecture, 1973.

University of Oregon, Bachelor of Landscape Architecture with Honors, 1971.

Registrations

Registered Landscape Architect: MI and MN.

Professional Affiliations

American Society of Landscape Architects, Member
Council of Educators in Landscape Architecture, Member

Academic Positions

University of Michigan, School of Natural Resources, Adjacent Associate Professor of Landscape Architecture, 1985; Associate Professor, 1977-83.
Harvard University Graduate School of Design, Continuing Education Program, Instructor, 1985; Visiting Associate Professor, 1983-85; Student Instructor, 1972-73; Teaching Assistant, 1971-72.
University of California at Berkeley, Visiting Lecturer, 1977.
University of Illinois at Champaign-Urbana, Assistant Professor, 1973-77.
University of Oregon, Teaching Assistant, 1970-71.
Visting critic and guest speaker at the following institutions: Utah State University, Kansas State University, Michigan State University, Purdue University, Virginia Polytechnical Institute, Ryerson Polytechnical Institute, and the Universities of Oregon, Minnesota, Toronto, Guelph, Washington at Seattle, and Colorado at Denver.

Awards

Outstanding Educator Award, Council of Educators in Landscape Architecture, 1980.
Who's Who in the Midwest, 1979-present.
University of Illinois at Champaign-Urbana Campus Awards for Excellence in Undergraduate Teaching, finalist, 1975.
Janet Darling Webel Memorial Scholarship and Uriel H. Crocker Scholarship, Harvard University Graduate School of Design, 1972-73.
Marie and Arthur Burger Scholarship, University of Oregon, 1969-71.

Publications

Space in Architecture, Van Nostrand Reinhold Company, forthcoming.
"Self-Study Manual: Visual Impact and Timber Harvesting," U.S. Forest Service, 1985.
Projection Drawing, Van Nostrand Reinhold Company, 1984.
Sketching with Markers, Van Nostrand Reinhold Company, 1981.
Plan and Section Drawing, Van Nostrand Reinhold Company, 1979.
Pencil Sketching, Van Nostrand Reinhold Company, 1977.
"Alternative Approaches to Residential Land Development," Champaign County Regional Planning Commission, Urbana, Illinois, 1977.
"Visual Resource Evaluation for Chicago Metropolitan Area River Basin Plan," U.S. Soil Conservation Service, co-author, 1975.
Design and Doodling, University of Illinois at Champaign-Urbana, 1974.
"South Boston Section in Olmsted's Park System as Vehicle in Boston," Harvard University Graduate School of Design, Department of Landscape Architecture, 1972.

Publications (Continued)

"Visual Impact Study in Environmental Impact Study," Harvard University Graduate School of Design, Department of Landscape Architecture, co-author, 1972.
"Study of Bog in Water Resources Papers," Harvard University Graduate School of Design, Department of Landscape Architecture, 1971.

Presentations

"Perception and the Design Process," Virginia Polytechnical Institute, April 1985.
"Sketching and the Design Process," University of Guelph, March 1984; GRAPHICS 84, Utah State University, February 1984.
"Visual Communication and Landscape Architecture," Ryerson Polytechnical Institute, March 1983.
"The Art of Seeing and Sketching," University of Minnesota, February 1983; University of Colorado at Denver, October 1982.
"Sketching and Visual Communication," Vail Conference, 1982.
"The Art of Sketching," GRAPHICS 82, Purdue University, March 1982.
"Formal Perception in Plan Drawing," Graphic Symposium, University of Illinois at Champaign-Urbana, October 1981.
"Perception and Communication," Kansas State University, October 1981.
"Communication," Forest Service Communication Workshop, May 1981.

Role at Sasaki Associates, Inc.

Mr. Wang joined the firm in 1985 as a senior landscape architect and urban designer. He serves as project designer for a variety of multidisciplinary projects and is responsible for establishing planning and design concepts, their articulation and design expression.

Professional History

Since 1969, Mr. Wang has been associated with firms practicing urban design and landscape architecture in Oregon, Illinois, Michigan and Massachusetts. Prior to joining Sasaki Associates, he was the design and graphic communication consultant to numerous award-winning design firms and government agencies engaged in the practice of planning, design and management of the landscape. Mr. Wang has had extensive experience in all levels of the design practice, with special interest in visual quality analysis, urban design, visual communication and design expression. He lectures extensively and is a frequent guest speaker at universities and major design conferences.

Project Experience

Mr. Wang has worked on over 20 projects involving urban mixed uses, urban waterfronts and downtown development and design. He has been involved in the design of the following urban projects: an outdoor plaza which will be the forecourt to the Ruggles Building at Northeastern University and the new Ruggles Street MBTA station in Boston, now under construction; a new transit mall on Main Street in downtown Springfield, Massachusetts; and a mixed-use development at the International Ferry Terminal in downtown Portland, Maine, including a new aquarium, office and retail space, hotel, restaurants, public waterfront park and harbor walk, and a new ferry terminal.

Mr. Wang is currently the designer on the Long Wharf improvements project in Boston, which will include reconstruction and renovation of the wharf, construction of a new public pier, marine facilities for private and tour and commuter boats, development of a public park and recreation facilities, and design of a viewing tower and shade pavilions.

ENVIRONMENTAL ANALYSIS

BYRON HUGH WILLIS, Ph.D.

POSITION	Project Manager (Sr. Env. Planner) WCH Industries, Inc.
EDUCATION	Ph.D., Aeronautical & Astronautical Engineering/MIT S.M., Aeronautical & Astronautical Engineering/MIT S.B., Aeronautical & Astronautical Engineering/MIT
YEARS EXPERIENCE	18

PROFESSIONAL EXPERIENCE

Dr. Willis has extensive experience as an engineer, project manager, line manager, and environmental planner. His technical background is in environmental engineering, systems engineering and computer modeling He has skills in defining, organizing and managing large-scale, multidisciplinary projects. He has demonstrated capability for directing technical professionals, working with clients, defining and managing technical work programs, providing expert witness testimony, preparing proposals, making sales presentations, and managing a profit center.

Dr. Willis has managed a technical staff of approximately 60 professionals covering the environmental disciplines of air quality, water quality, geology, noise, transportation, urban planning , sociology and economics. Responsibilities included selection and hiring of technical staff, projection of staff work load, assignment of staff resources to projects, review of project work for compliance with schedule and budjet constraints, performing technical staff performance reviews, developing short range business plans, and performing long range strategic planning.

Dr Willis has also performed environmental projects relating to air quality modeling and land use planning. He directed a major study for the U.S. EPA and the State of New Jersey to determine the air quality impact of various comprehensive land use master plans then being developed for the New Jersey Hackensack Meadowlands region, and made recommendations that led to the adoption of the master plan now in effect for that region.

Dr Willis also has extensive experience in directing ambient air monitoring programs in support of air quality permitting and EIS studies. Representative project experience includes, the air quality monitoring programs at Washington National and Dulles International Airports, air monitoring in support of PSD permitting for the Northern Tier crude oil marine terminal and tank farm at Port Angeles, Washington, air monitoring for the Koppers Synfuels plant at Oak Ridge, Tennessee, and air monitoring for a New Jersey Turnpike widening EIS project.

CHARLES LEVY, P.E.

POSITION	Project Manager WCH Industries, Inc.
EDUCATION	M.S., Chemical Engineering/ University of Missouri B.S., Chemical Engineering/MIT
YEARS EXPERIENCE	31

PROFESSIONAL EXPERIENCE

Mr. Levy, a senior chemical engineer and environmental consultant at WCH Industries, provides highly technical assistance to clients in the areas of environmental analysis, chemical engineering, toxic chemical investigations, heavy metal pollution, chemical analytical services, plant design, air/water pollution control, air/water sampling and analysis, and wastewater/hazardous waste treatment. With expertise in the environmental/ chemical engineering/waste disposal field, and he is a recognized expert in electroplating and heavy metal sludge disposal.

In 1977, Mr. Levy became the Assistant Environmental Control Officer for a Research and Development Center. In 1978, he assumed full responsibility for this position which included formulating and executing the entire environmental program consisting of implementing provisions of the NEPA; coordinating requirements for environmental assessments and impact statements; disposal of chemical waste, heavy metal sludge, air/water pollutants and radioactive waste; and integrating environmental protection and preservation activities into the planning and execution of the Center's mission.

A representative sample of projects performed by Mr. Levy includes:

- Conduct of an environmental impact assessment
- An environmental waste study on a chemical treatment facility
- A waste treatment study involving silver sludge recovery
- A waste facility design of a plating treatment system
- A waste emulsified oil separation recovery system
- An evaluation of an electroplating process
- Development of a metal finishing and waste treatment system
- A facility design for a hazardous waste treatment system
- Conduct of an anodizing and plating waste treatment study
- Design of an environmental waste treatment system
- Water conservation/wastewater treatment study
- Chemical analysis of plating solutions and solders
- Salt fog corrosion testing
- Wastewater recovery and recycling system
- Design of air exhaust system for chromium plating operations
- A hazardous waste survey at an Army military installation
- Technical investigations on hazardous chemical air releases
- Air/Water sampling projects
- Environmental consultant on a water pollution control project.

Mr. Levy is a past chairman of the Boston Chapter of the Electrochemical Society and past President of the Boston Branch of the American Electroplater's Society.

ALVIN W. PANSEY, P.E.

POSITION	Senior Energy Systems Engineer WCH Industries, Inc.
EDUCATION	B.Sc./Mechanical Engineering PE/1981/(4414 Rhode Island) Mechanical PE/1982/(31069 Massachusetts) Mechanical CEM/1982/Association of Energy Engineers
YEARS EXPERIENCE	31

PROFESSIONAL EXPERIENCE

Mr. Alvin W. Pansey has more than 20 years of experience as a Consultant, Management Executive, Project Manager, and Manufacturing Manager in plant facilities, manufacturing and energy conservation fields. Since 1978, he has been involved in providing total management services to both the private and public sectors and has conducted audits, feasibility studies, energy management systems analysis, and utility studies. Additionally, he has managed various projects and programs in the alternative energy field and prepared model documentation for Code Officials on solar heating and cooling of buildings. He has authored reports on the Northeast Solar Energy Center Project for Solar Assessment of Public Buildings and other documentations in the renewable energy field.

Mr. Pansey has additional expertise in the following areas:

- utility systems study
- conservation and management strategies
- on-site technical analysis, planning and accounting
- energy management systems
- alternate renewable energy technologies program administration
- manufacturing, construction and source development
- new plant planning and start up
- operations expansion and capital equipment evaluations
- local, state, and federal building codes
- source development, purchasing, and contract negotiations in domestic and foreign markets
- human resource development and personnel motivation
- training and technical support programs for multi-discipline task force.

Mr. Pansey has a proven record of success as an effective problem-solver with the ability to provide a high degree of technical competence as well as efficiency to allow maximum use of available human and material resources.

ED LUTTMER

POSITION	Civil/Environmental Engineer WCH Industries, Inc.
EDUCATION	M.S. Work, Civil/Env. Engineering/ Polytechnic University
	B.S., Civil/Env. Engineering/ MIT
YEARS EXPERIENCE	6

PROFESSIONAL EXPERIENCE

Mr. Luttmer, a civil/environmental engineer, has performed professional engineering services in a number of key areas. He has done project design and oversight on projects including: gravity sewer, pump station, and force main; treatability studies and pretreatment system; flow monitoring/recording equipment selection, installation, and subsequent data collection and analysis; infiltration/inflow and SSES field results analysis, correction, and videotape/log review; flammable liquids and gas storage, distribution, and control system; and coordination of efforts by various city agencies in the New York area. He has also performed extensive flow metering work and data compilation and analysis in the Boston area.

Mr. Luttmer has served as a civil engineer where his responsibilities included sewer inspection for structural and design deficiencies, contract preparation (scope, restrictions, estimates, and coordination), infrastructure improvements, and computer program development for survey analysis and sewer inventory. This effort involved physical inspection of combined sewers and subsequent development of a sewer run inventory and rehabilitation/replacement work.

Mr. Luttmer also has experience in solid waste management, groundwater contamination, industrial wastes treatment (esp. plating and metal finishing), water and wastewater analysis and treatment, environmental impact assessment and planning, and computer programming in PL/1, FORTRAN, and BASIC. He has a broad academic base in treatment design, hydraulics, environmental planning, ecology, groundwater, and coastal zone issues.

Mr. Luttmer brings to WCH Industries an extensive background in the areas of wastewater treatment, infiltration/inflow, combined sewers, sewer design, water quality and environmental planning. He has excellent field engineering capabilities as well as engineering planning and writing skills.

WENDELL CANADA

POSITION	Senior Engineering Design Technician WCH Industries, Inc.
EDUCATION	Feener Technical School of Mechanical Drafting Lowell Technical Institute
YEARS EXPERIENCE	31

PROFESSIONAL EXPERIENCE

Mr. Canada serves as the Senior Engineering Design Technician/Draftsman at WCH Industries, Inc. He has performed design work on numerous mechanical systems and facilities over an extended period of time. He has been involved in a wide range of mechanical and other engineering drafting work involving various types of jobs for a prototype development organization. He has developed graphic materials using an array of skills including drafting, printing, developing, enlarging and reducing graphical representation for presentations and/or reports.

Mr. Canada performed drafting services on a Boston Redevelopment Authority project involving the final design of sewer systems in the Boston area. He also provided drafting support to two environmental studies. One required map preparation of alternative radar sites in the state of Maine. The other required mapping of the proposed Braintree-Weymouth interceptor sewer system for MDC.

Mr. Canada has provided technical and engineering support to a number of in-house projects. He supported the BWSC Downtown study by providing mapping and inventory assistance to the project team. In addition to inventory tabulations, and coding, plotting and annotating environmental data onto working plans, he also supervised junior personnel who were working on the project. On another project for MASSPORT involving NO_x Monitoring at Logan Airport, he provided technical and maintenance support assistance. On the Transportation Systems Center EMCS inventory project, he provided point inventory and mapping assistance to the project team. On a project in support of ERT, Inc., he provided traffic count assistance. On an environmental assessment project, he was involved in data collections and analysis. As a senior engineering technician his services have been useful on a multitude of WCHI projects.

Prior to joining WCHI, Mr. Canada provided support services to unique facilities, including special rooms, clean rooms, beryllium & uranium facilities and manufacturing facilities.

Mr. Canada brings to WCH Industries a broad range of design, drafting and technical support experience which is essential in a multidisciplinary organization such as WCHI. This enables him to perform and supervise many of the diverse projects handled by the company.

BETH ANN KAY

POSITION	Civil/Environmental Engineer WCH Industries, Inc.
EDUCATION	B.S./Environmental Technology Cornell University
YEARS EXPERIENCE	2

PROFESSIONAL EXPERIENCE

Ms. Kay, a civil/environmental engineer, has performed engineering services in a number of key areas. Her work on the Southern System Modeling Project involved installing flow meters and gages, collecting flow data and analysis. She has also performed field maintenance on flow meters, gages, and wells, and has been involved in data retrieval and field data reduction on this project. Her work on other environmental projects consists of providing engineering and data base management assistance.

Ms. Kay has served as a Computer Operator providing assistance on CMS, DEC TOPS20, and Unix operating systems. She also has experience in installing communications programs between CMS and Apple IIe. She has provided assistance in the use of personal computers (IBM PC/XT, DEC Rainbow/Pro, Apple) and has become familiar with Unix and VMS operating systems.

Ms. Kay worked on a program using the KnowledgeMan database system to partially automate the U.S. Environmental Protection Agency's chemical engineering pre-manufacture notification process for industries. She has combined her work in computers with studies in environmental systems analysis, mathematical modeling and waste management systems.

Ms. Kay's experience also includes chemical analysis and monitoring of anaerobic digestors using apple pomace or sorghum wastes to produce methane gas for energy. This involved the use of large and small animals for tests, preparation of various solutions for assays, and employment of laboratory techniques to accomplish the results of these experiments.

Ms. Kay is knowledgeable in ecology, limnology, agronomy, cartography, differential equations, point & non-point pollution modeling, fluid mechanics, transport of pollutants, soil microbiology, and wastewater treatment.

Ms. Kay brings to WCH Industries a background in the areas of environmental engineering, communications programs, computer programs, operating systems, chemical analysis, laboratory work and computer modeling.

REBECCA LONGLEY
Associate

Education

Nasson College, Bachelor of Arts in Biology, 1973.

Virginia Polytechnic Institute, Post Graduate Course, Fundamentals of Air Quality, 1979.

Professional Affiliations

Air Pollution Control Association, Member

Role at Sasaki Associates, Inc.

As an environmental specialist, Ms. Longley conducts field reconnaissance, collects field data, and prepares reports on water quality and air and noise impacts of site and roadway development. She joined the firm in 1981.

Professional History

For more than ten years, Ms. Longley has participated in numerous environmental studies and field investigations as a consultant, and has reviewed environmental reports for state and federal agencies.

Ms. Longley was the air and noise specialist in the Environmental Section of the Massachusetts Department of Public Works before coming to Sasaki Associates, Inc. Her responsibilities there included review of proposals and reports through use of air and noise prediction models and liaison services between consulting firms and reviewing agencies to expedite project development.

As coordinator for an environmental consulting firm, Ms. Longley maintained a quality assurance program in the chemical and biological laboratories and managed its staff. She was in-house coordinator of a four-year water quality monitoring program during the construction of a corporate headquarters. Other project responsibilities included collecting and monitoring data, computer modelling of highway related air and noise pollution, and writing environmental reports.

Project Experience

Ms. Longley's recent assignments with Sasaki Associates have included: coordinating a highway corridor planning study for the City of Charlotte, North Carolina; submitting a multiple permit application for a marina in Woodbridge, New Jersey; investigating the effects of an office park development on a surface water supply in Waltham, Massachusetts; coordination of the air, noise, and energy study for the development of a transit mall in Springfield, Massachusetts; and establishing the scope of environmental impact studies with various federal, state, and local agencies.

Ms. Longley's other duties as an environmental specialist have involved Massachusetts wetlands delineations, processing environmental permit applications, reviewing and analyzing the results of water testing programs for environmental reports, and designing an internship program for an undergraduate civil engineering student from Worcester Polytechnic Institute.

TRAFFIC

BARRY M. PELL, PE
Senior Associate

Education

Purdue University, Master of Science in Civil Engineering, 1972.

New York University, Bachelor of Science in Civil Engineering (Summa Cum Laude), 1971.

Registrations

Registered Professional Engineer: CA, CO, FL, and MA.

Professional Affiliations

Institute of Transportation Engineers, Member

Role at Sasaki Associates, Inc.

Mr. Pell, as Project Manager, conducts and supervises transportation studies and directs traffic and transportation elements of the firm's planning and urban design projects. He joined Sasaki Associates in 1981.

Professional History

Mr. Pell has acquired over 14 years of experience in the field of civil and transportation engineering. His diverse work experience has encompassed a broad range of activities in the areas of planning, feasibility studies, design, operations, and administration.

Projects under Mr. Pell's direction have included site accommodation and traffic impact assessment studies, traffic and parking operations plans, rail and bus transit efficiency studies, and the planning and design of interconnected signal systems. His work has often required expert witness engineering testimony.

Before joining Sasaki Associates, Mr. Pell was Senior Transportation Planner and Traffic Engineer for a consulting engineers firm. He also served as Director of Traffic Engineering for Littleton, Colorado, where his responsibilities included daily operation and long-range planning of the city's 110-mile street and highway network.

As head Transportation Planner for the Denver, Colorado Planning Office, Mr. Pell's activities spanned the areas of downtown development and neighborhood planning.

Project Experience

Mr. Pell's recent urban projects have included a parking study for the downtown historic and industrial district of Haverhill, Massachusetts; the evaluation and design of transit mall and street improvement alternatives in downtown Springfield, Massachusetts; the planning and design for major geometric and traffic signal reconstruction for Watertown Square in Watertown, Massachusetts; and recommendations for traffic circulation patterns in conjunction with the 1-1/2-mile long riverwalk development in downtown Fort Lauderdale, Florida.

Mr. Pell has extensive experience in circulation and parking studies for numerous campus projects including Boston College, Cornell University, George Mason University in Virginia, the University of Arkansas at Little Rock and the University of Rochester. Corporate projects under his direction, for which traffic impacts were evaluated and required roadway and traffic control improvements were determined, include a 1.2 million square foot office development in Marlborough, Massachusetts; a 48-acre office, commercial and hotel mixed-use development in Glastonbury, Connecticut; a 600-acre residential development and country club in Leawood, Kansas; and the 1,600-acre Princeton Forrestal Center, a multi-use complex being developed by Princeton University in Plainsboro Township, New Jersey.

In addition, Mr. Pell has served as Project Manager and principal author of transportation planning corridor studies for rapidly developing areas along Route 495 in Marlborough, Massachusetts and Route 128 in Waltham, Massachusetts.

DAVID L. SAMUELSON, P.E.

Education

University of Michigan, Master of Science in Civil Engineering, 1981.

University of Michigan, Bachelor of Science in Civil Engineering, 1978.

Registrations

Registered Professional Engineer: CA

Professional Affiliations

Institute of Transportation Engineers, Associate Member

Role at Sasaki Associates, Inc.

Since joining the firm in 1984, Mr. Samuelson has prepared numerous traffic and transportation assessments for mixed-use developments, city roadway improvement programs, and university master plans.

Professional History

Prior to joining Sasaki Associates, Mr. Samuelson worked in the traffic analysis section of the California Department of Transportation in San Diego. His assignments dealt primarily with the evaluation of traffic volumes forecast for regional and focused-area transportation networks, by means of computer modeling. Mr. Samuelson also has experience in highway design, construction, surveying and planning.

Project Experience

Mr. Samuelson has had responsibility for assessing and resolving the potential impacts of development-related traffic in 12 states. These projects include Whitehall, a 750-acre planned community in Charlotte, North Carolina; a research and development park in Rochester, New York; and the Capital Campaign master plan for Tufts University in Medford, Massachusetts. He has also assisted in completing traffic analyses and evaluations of phased roadway improvement strategies, such as the 1600-acre Princeton Forrestal Center in Princeton, New Jersey.

MARCELLA E. DICKIE

Education

Franklin Institute of Boston, Associate Degree in Engineering Technology, 1977.

Professional Affiliations

Institute of Transportation Engineers,
Associate Member

Role at Sasaki Associates, Inc.

Ms. Dickie joined Sasaki Associates in 1977 as a traffic analyst and is responsible for the development of transportation assessment studies and the coordination and execution of contract documents.

Professional History

Ms. Dickie has eight years of experience as a traffic analyst. Her assignments have encompassed both transportation planning and traffic engineering design. Ms. Dickie has been responsible for technical studies requiring the development of trip generation rates and travel pattern distribution, trip assignments, and traffic capacity analyses used to determine deficiencies in the traffic system and for the formulation of necessary improvements.

Project Experience

Projects in which Ms. Dickie has participated include: concept traffic planning and feasibility studies for the development of Princeton Forrestal Center, a 1600-acre multi-use complex in Plainsboro Township, New Jersey; assessment of existing and future traffic systems for an areawide traffic study in Marlborough, Massachusetts; analysis and evaluation of the overall impact of potential developments upon traffic through the Pocantico Hills area of Mount Pleasant, New York; assessment of the present traffic setting and the potential traffic impact of proposed office and research developments in Marlborough, Massachusetts and Bridgewater, New Jersey; preparation of an Environmental Impact Report for a one million square foot bio-medical research park adjacent to the University of Massachusetts Medical Center in Worcester; and technical assistance for a traffic and parking facility assessment for a campus development plan at the University of Chicago.

Ms. Dickie has also been responsible for the design of traffic control devices for the State University of New York at Buffalo, Cleveland Public Square in Ohio, and Watertown Square in Massachusetts, and has been involved in Federal-Aid Urban Systems work for the Cities of Arlington, Haverhill, Maynard and Newton, Massachusetts.

FEES AND SCHEDULES

The project team will perform the services described above for a fee of $300,000.

As part of the overall price, the project team will include the submission of 50 copies of the DEIR for the MEPA review process.

The proposed payment schedule is as follows:

Payment of $100,000 (with 10% retainage withheld) after completion of each third (1/3) of the project. A progress report will be provided with each request for payment. The 10% retainage will be released upon acceptance of the DEIR.

NOTE: The cost of conducting a 21 E investigation is not included in the above estimated price. If required by this team, a 21 E investigation will be performed for the price of $2,500.00. This does not include borings and analysis of soil samples, should follow-up geotechnical studies be required as a result of the 21 E study.

FEE SCHEDULE BACKUP

PROJECT ACTIVITY	DAYS
Project Management and Support	92
Task 1	8
Task 2	125
Task 3	213
Task 4	57
Task 5	59
Task 6	8
Task 7	151
Task 8	26

TOTAL DAYS			COST
WCHI	426		$165,000
Sasaki	304		$135,000
		TOTAL	$300,000

Plus: $2,500 for 21E investigation

CONTRACT FOR PROFESSIONAL SERVICES

BY AND BETWEEN

BOSTON REDEVELOPMENT AUTHORITY

AND

WCH INDUSTRIES, INC.

THIS AGREEMENT entered into this 17TH day of JULY, 1986 by and between the BOSTON REDEVELOPMENT AUTHORITY of the City of Boston, Commonwealth of Massachusetts, hereinafter referred to as the "Authority" and WCH INDUSTRIES, INC., 14 Felton Street, Waltham, MA 02154, hereinafter referred to as the "Consultant".

WITNESSETH THAT:

WHEREAS, the Authority at its meeting of July 17, 1986 authorized the Director to enter into a contract with the Consultant for the performance and provision of certain professional services in connection with the Parcel 18 and Kingston-Bedford/Essex Street Parcel-to-Parcel linkage project

[illegible]e preparation of D[illegible]

[illegible]f the Mass[illegible]s 62 through 62-H [illegible]ality.

[illegible] follows:

I. [illegible]

[illegible]ironmental impa[illegible]on-Bedford/ Esse[illegible]

[illegible]ices as stipulated under this contract for the prep[illegible] noted below under Section II.

Parcel 18
File WCH Industries
Contract

II. Scope of Services

A. General

The Consultant shall prepare separate Draft Environmental Impact Reports for the Southwest Corridor Parcel 18 development in Roxbury and the Kingston-Bedford garage parcel/140 Essex Street parcel development in downtown Boston in accordance with the MEPA scoping requirements included in the Certificates of the Secretary of Environmental Affairs on the

Environmental Notification Forms. The Consultant also shall conduct the necessary investigations for assessing the environmental impacts associated with the planned developments.

B. Specific Tasks

The specific professional services which the Consultant shall provide are as follows:

Task 1: Prepare and Finalize Work Plan

Upon receipt of the MEPA Certificates on the ENFs, a final work plan outlining tasks and schedules will be prepared. This work plan will reflect the details of the schedule and highlight work assignments.

Task 2: Data Collection

The Consultant will collect available data from the Authority and other agencies including federal, state and local agencies. In addition to the collection of the existing data, some information pertinent to the assessment will be generated (i.e., traffic studies, geotechnical studies, alternative designs, etc.). This new data together with existing information will provide the data base from which impact assessments can be made.

Task 3: Development and Analysis of Environmental Impacts

The Consultant will develop potential environmental impacts and analyze such impacts in accordance with MEPA (G.L., c.30, s.62-62H) and the regulations implementing MEPA (301 CMR 10.00), and in accordance with the Scopes of the EIRs contained in the MEPA Certificates.

- Project Description - The project description will include detailed information on the project including history and the project background; a discussion of project alternatives that have previously been considered and/or rejected; and a statement of the project objectives as they relate to the Authority's goals for the site and the area.

- Open Space/Recreation - An inventory of open space and recreational sites in the vicinity of the project will be made. This will also include an assessment of the adequacy of existing resources in the communities to meet the needs of the new developments.

- Chemicals, Hazardous Waste and Risk Operations - The Consultant will conduct investigations to determine the presence of chemicals, hazardous waste and risk operations at the project sites and the assessment of impacts associated with such presence. A 21E investigation is proposed as a separately costed project and is not a part of this scope, but the information that would be derived from such a study is essential for the completion of this task.

- Geology and Groundwater - The Consultant will collect geological information, groundwater/hydrological information and foundation conditions from existing reports. This information will be used to constitute an existing baseline for evaluation of the project sites. Should existing

borings be required for an adequate assessment of the project sites, the Consultant will recommend contracting such geotechnical services to a qualified geotechnical firm (e.g., Haley & Aldrich, Inc., or Goldberg Zoino and Associates, Inc.). These additional geotechnical services would represent an additional cost to the contract fee, if approved in writing by the Authority's Director.

- Air Quality - The Consultant will assess the results of the traffic analysis for those intersections experiencing an E Level of service or worse. With a 10 percent volume increase due to the project, a carbon monoxide analysis will be required. The analysis will include existing and future conditions, and will employ standard computer modeling techniques using the latest accepted emission factors.

- Water Quality, Supply and Use - The Consultant will collect and evaluate information on the water quality, quantity and its use. Information pertaining to storm water runoff, drainage, erosion, sewage disposal and control strategies is important to this evaluation. Water demand and supply as well as capacities will also be assessed.

- Energy Use - The Consultant will evaluate the increased consumption of fuels that will result from the proposed developments. Cost-efficient energy systems design will be considered as mitigating measures to the increased level of energy consumption.

- Noise - The Consultant will assess construction-related noise disturbances and recommend measures to alleviate disturbances. The long-term affects of the project via traffic-generated noise will be assessed with the use of the latest Department of Housing and Urban Development Guidelines.

- Traffic - The Consultant will prepare a traffic and parking assessment of the proposed development alternatives, including the collection of existing traffic data (traffic counts, etc.) and the projection of traffic increases and impacts that may result from the proposed developments.

- Solid Waste - The Consultant will assess the short and long-term impacts of increased waste materials created by construction activities and by use of the facilities following construction.

- Aesthetics and Visual Quality - The Consultant will assess the aesthetics and visual quality proposed by the developments, as compared to the existing surroundings in terms of scale, massing, envelope, and views to and from the surrounding neighborhood. Drawings, renderings, and photographs will be prepared to reinforce this assessment. The impact on historic resources in the vicinity of the developments also will be assessed.

- Wind and Shadow - The Consultant will prepare a qualitative wind impact analysis of the anticipated pedestrian level wind effects of the planned developments. This analysis will evaluate the potential effects of the alternative building configurations, heights and massing on pedestrian

areas and other public spaces to determine areas which may require more detailed analysis or project modifications to eliminate any potential unacceptable conditions.

A shadow study (drawings) will be included in the DEIR. The shadow study will include shadows cast by the proposed buildings on specific dates and times of the year, as requested by MEPA and the Authority. The Consultant will evaluate these drawings and prepare text to be included in the DEIR.

- Growth Impacts - The Consultant will assess the impacts of population and activity growth that may result from the proposed developments.

- Community/Housing and Built Environment - The Consultant will assess the surrounding land and socio-economic factors (population, housing and employment) to determine the impacts that will result from the proposed project. Special consideration will be given to potential impacts dealing with displacement, population changes, and community economics that may be of concern to the local communities.

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Task 4: Definition and Evaluation of Alternatives

The Consultant will define the Alternatives, including the baseline condition and the alternatives suggested by the Authority, and may propose at least one additional Alternative.

Task 5: Gathering of Public Opinion

The Consultant will design a program to collect and assess public information. This program will include provisions for local citizens to submit both written and verbal comments regarding the proposed developments. A continuing dialogue will be established and maintained with local citizen groups throughout the 3-month period of the draft environmental assessment process, for exchange of views and discussion of concerns regarding the potential effects of the proposed developments on their neighborhoods. In addition to this continuing dialogue which may include periodic meetings and briefings with selected citizen groups, up to three (3) full public participation meetings, which will be highly publicized, will be held in each of the two communities affected by the developments.

Task 6: Recommendation

The results of the impact evaluations, including input from the public, will be used to evaluate the various Alternatives with the end result being a selected Preferred Alternative.

Task 7: Preparation of the DEIRs

The Consultant will compile the results of Tasks 1 through 6 for use in preparing the two Draft Environmental Impact Reports (DEIRs). These DEIRs will include quality text, photographs, renderings and graphics for use in the MEPA review process, and will follow the format required by the MEPA Scopes.

Prior to publication of the DEIRs, the Consultant will furnish to the Authority for its review 10 draft copies of the reports. Following approval of these reports by the Authority, the Consultant shall submit 50 copies of the DEIRs for the MEPA review process.

Task 8: Participation in Meetings, Conferences and Presentation

The Consultant will attend a number of meetings and presentations with Agency personnel. This proposal includes participation in meetings with an average of three persons each, not to exceed the following number of meetings:

- BRA Project scoping meetings - 2
- BRA Project staff meetings - 4
- Presentations to BRA staff - 2
- Other meetings/conferences - 3

(These meetings are in addition to the public participation meetings reflected in Task 5, Gathering of Public Opinion.)

C. Site offices

The Consultant will establish a site office within the Authority's Dudley Square Site Office which will be staffed by the Consultant during normal business hours. This office will serve as a focal point for collecting information, coordinating project activities, and providing the community with information concerning the project. A site office also shall be established by the Consultant in the Chinatown neighborhood for information distribution only.

D. Subcontracting

Due to the complexity of the work required hereunder, the Consultant may, after written approval of the Authority, contract with Sasaki Associates, Inc., for assistance in providing certain of the services. Payment for such subcontractor services shall be included in the Consultant's fee hereunder.

E. Revisions in the Scope of Services

1. If during the term of this contract, the Authority changes the limits of the project or causes revisions or other changes to be made in the scope of character of the work to be performed, the Consultant shall make the necessary changes upon receipt of written order from the Authority which shall not be unreasonably withheld.

2. If the Authority orders the Consultant to make a change from previously approved work or revisions which are inconsistent with written approvals or instruction previously given, the Consultant shall make said changes only after receiving written order from the Authority.

3. The Authority will not unreasonably request revisions of work by the Consultant.

III. Time of Performance

The Consultant shall commence work as provided herein upon the execution of the Contract and shall complete performance no later than 12 weeks from issuance by the Authority of separate Orders to Proceed for each EIR. If an extension is required as a result of circumstances not caused by the Consultant or for which the Consultant is not at fault, reasonable extensions may be granted. Equitable adjustments shall be made in the allowable costs, fee, time of performance, and/or terms and conditions, as applicable.

IV. Payment for Services

A. Compensation for Services

For providing the services specified hereunder, the Authority shall pay the Consultant as full and final compensation for services a fee payment of three hundred thousand ($300,000) dollars.

Such fee shall include all costs incurred by the Consultant inclusive of salaries, FICA taxes, Federal and State unemployment taxes, out-of-pocket costs, fringe benefits, supplies and equipment, general cost of doing business, cost of subcontractors, and profit.

The Authority will pay the Consultant in accordance with the following schedule.

1. Upon satisfactory completion of at least one-third of all services required hereunder, as determined by the Authority, a sum of $100,000 less 10% retainage;
2. Upon satisfactory completion of at least two-thirds of all services required hereunder, as determined by the Authority, a sum of $100,000 less 10% retainage;
3. Upon satisfactory completion of all services hereunder, including receipt and acceptance of the DEIRs described above, a sum of $100,000 plus previously withheld retainage. ✓

In no event shall the maximum amount payable to the Consultant hereunder for all services, including retention of Subcontractor under Section II.D, exceed the sum of three hundred thousand ($300,000) dollars.

B. Method of Payment

Payment for all of the Consultant's services shall be made in accordance with Section IV-A above. Each payment shall be made by the Authority after receipt of a certified statement from the Consultant indicating the percentage of completion of such services and such additional information as may be required to substantiate such charges, including related progress reports, indicating the work performed.

Upon receipt and approval of applications for payment and related progress reports, the Authority shall pay 90% of all earned fees. Final payment, including previously withheld retainage, shall be made upon satisfactory completion of all services hereunder, including receipt and acceptance of satisfactory DEIRs and completion of required meetings under Task 8.

V. Terms and Conditions

This contract is made subject to and incorporates the "Form H-621B, Part II - Terms and Condition" which is attached hereto and expressly incorporated and made a part hereof. All references to the term "Contractor" shall be deemed to mean the term "Consultant" as defined herein.

VI. Assignability

The Consultant shall not assign or transfer his respective interest in this contract without the written consent of the Authority which shall not be unreasonably withheld.

VII. Responsibility of Authority

The Authority agrees to make available to the Consultant, at no cost, working and meeting space within its Dudley Square Site Office and will also provide a site office for the Consultant's use at a suitable location within the Chinatown community.

The Authority also will make available to the Consultant all available reports, plans, data, and other appropriate information held by the Authority regarding the project which may be required in connection with the performance of this contract.

VIII. Authorization to Proceed

The Consultant shall proceed to undertake and complete the work in response to written Orders to Proceed from the Authority's Environment Review Officer.

IX. Property of the Authority

The Consultant shall present to the Authority at the conclusion of this agreement all data prepared under terms of this contract, and such data shall become the property of the Authority.

X. Release

In consideration of the execution of this Contract by the parties hereto, the parties agree that simultaneously with the acceptance of the final payment to the Consultant by the Authority and acceptance by the Authority of the reports of the Consultant, the Parties will execute mutual releases of all claims, save only such claims, demands and liabilities as are expressly excepted in said instruments.

IN WITNESS WHEREOF, on the 17TH day of JULY, 1986, the parties hereto have caused this Agreement to be executed by their duly authorized officers, respectively.

ATTEST:

BOSTON REDEVELOPMENT AUTHORITY

ATTEST:

WCH INDUSTRIES, INC.

William C. Harrison

William C. Harrison, President

Approved as to Legal Form:

Chief General Counsel

ATTEST:

ASSENTED TO:

SASAKI, ASSOCIATES, INC.

Richard F. Galehouse

Richard F. Galehouse, Principal

James A. Sukeforth, President

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
RENEWAL ASSISTANCE ADMINISTRATION

CONTRACT FOR PROFESSIONAL OR TECHNICAL SERVICES

Part II - Terms and Conditions

1. Termination of Contract for Cause

If, through any cause, the Contractor shall fail to fulfill in timely and proper manner his obligations under this Contract, or if the Contractor shall violate any of the convenants, agreements, or stipulations of this Contract, the Local Public Agency shall thereupon have the right to terminate this Contract by giving written notice to the Contractor of such termination and specifying the effective date thereof, at least five days before the effective date of such termination. In such event, all finished or unfinished documents, data, studies, and reports prepared by the Contractor under this Contract shall, at the option of the Local Public Agency become its property and the Contractor shall be entitled to receive just and equitable compensation for any satisfactory work completed on such documents.

Notwithstanding the above, the Contractor shall not be relieved of liability to the Local Public Agency for damages sustained by the Local Public Agency by virtue of any breach of the Contract by the Contractor, and the Local Public Agency may withhold any payments to the Contractor for the purpose of setoff until such time as the exact amount of damages due the Local Public Agency from the Contractor is determined.

2. Termination for Convenience of Local Public Agency

The Local Public Agency may terminate this Contract any time by a notice in writing from the Local Public Agency to the Contractor. If the Contract is terminated by the Local Public Agency as provided herein, the Contractor will be paid an amount which bears the ratio to the total compensation as the services actually performed bear to the total services of the Contractor covered by this Contract, less payments of compensation previously made: Provided, however, that if less than sixty percent of the services covered by this Contract have been performed upon the effective date of such termination, the Contractor shall be reimbursed (in addition to the above payment) for that portion of the actual out-of-pocket expenses (not otherwise reimbursed under this Contract) incurred by the Contractor during the Contract period which are directly attributable to the uncompleted portion of the services covered by this Contract. If this Contract is terminated due to the fault of the Contractor, Section 1 hereof relative to termination shall apply.

3. Changes

The Local Public Agency may, from time to time, request changes in the scope of the services of the Contractor to be performed hereunder. Such changes, including any increase or decrease in the amount of the

Contractor's compensation, which are mutually agreed upon by and between the Local Public Agency and the Contractor, shall be incorporated in written amendments to this Contract.

4. Personnel

   a. The Contractor represents that he has, or will secure at his own expense, all personnel required in performing the services under this Contract. Such personnel shall not be employees of or have any contractual relationship with the Local Public Agency.

   b. All the services required hereunder will be performed by the Contractor or under his supervision and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under State and local law to perform such services.

   c. No person who is serving sentence in a penal or correctional institution shall be employed on work under this Contract.

5. Anti-Kickback Rules

   Salaries of architects, draftsmen, technical engineers, and technicians performing work under this Contract shall be paid unconditionally and not less often than once a month without deduction or rebate on any account except only such payroll deductions as are mandatory by law or permitted by the applicable regulations issued by the Secretary of Labor pursuant to the "Anti-Kickback Act" of June 13, 1934 (48 Stat. 948; 62 Stat/ 740; 63 Stat. 108; title 18 U.S.C., Section 874 and title 40 U.S.C., Section 276c). The Contractor shall comply with all applicable "Anti-Kickback" regulations and shall insert appropriate provisions in all subcontracts covering work under this Contract to insure compliance by subcontractors with such regulations, and shall be responsible for the submission of affidavits required of subcontractors thereunder except as the Secretary of Labor may specifically provide for variations of or exemptions from the requirements thereof.

6. Withholding of Salaries

   If, in the performance of this Contract, there is any underpayment of salaries by the Contractor or by any subcontractor thereunder, the Local Public Agency shall withhold from the Contractor out of payments due to him an amount sufficient to pay to employees underpaid the difference between the salaries required hereby to be paid and the salaries actually paid such employees for the total number of hours worked. The amounts withheld shall be disbursed by the Local Public Agency for and on account of the Contractor or subcontractor to the respective employees to whom they are due.

7. Claims and Disputes Pertaining to Salary Rates

   Claims and disputes pertaining to salary rates or to classifications of architects, draftsmen, technical engineers, and technicians performing work under this Contract shall be promptly reported in writing by the Contractor to the Local Public Agency the latter's decision which shall be final with respect thereto.

8. Equal Employment Opportunity

During the performance of this Contract, the Contractor agrees as follows:

a. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous place, available to employees and applicants for employment, notices to be provided by the Local Public Agency setting forth the provisions of this nondiscrimination clause.

b. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

c. The Contractor will cause the foregoing provisions to be inserted in all subcontracts for any work covered by this Contract so that such provisions will be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

9. Discrimination Because of Certain Labor Matters

No person employed on the work covered by this Contract shall be discharged or in any way discriminated against because he has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable hereunder to his employer.

10. Compliance With Local Laws

The Contractor shall comply with all applicable laws, ordinances, and codes of the State and local governments, and shall commit no trespass on any public or private property in performing any of the work embraced by this Contract.

11. Subcontracting

None of the services covered by this Contract shall be subcontracted without the prior written consent of the Local Public Agency. The Contractor shall be as fully responsible to the Local Public Agency for the acts and omissions of his subcontractors, and of persons either directly or indirectly employed by him. The Contractor shall insert in each subcontract appropriate provisions requiring compliance with the labor standards provisions of this Contract.

12. Assignability

The Contractor shall not assign any interest in this Contract, and shall not transfer any interest in the same (whether by assignment or novation) without the prior written approval of the Local Public Agency: Provided, however, that claims for money due or to become due the Contractor from the Local Public Agency under this Contract may be assigned to a bank, trust company, or other financial institution, or to a Trustee in Bankruptcy, without such approval. Notice of any such assignment or transfer shall be furnished promptly to the Local Public Agency.

13. Interest of Members of Local Public Agency

No member of the governing body of the Local Public Agency, and no other officer, employee, or agent of the Local Public Agency who exercises any functions or responsibilities in connection with the carrying out of the Project to which this Contract pertains, shall have any personal interest, direct or indirect, in this Contract.

14. Interest of Other Local Public Officials

No member of the governing body of the locality in which the Project Area is situated, and no other public official of such locality, who exercises any functions or responsibilities in the review or approval of the carrying out of the Project to which this Contract pertains, shall have any personal interest, direct or indirect, in this Contract.

15. Interest of Certain Federal Officials

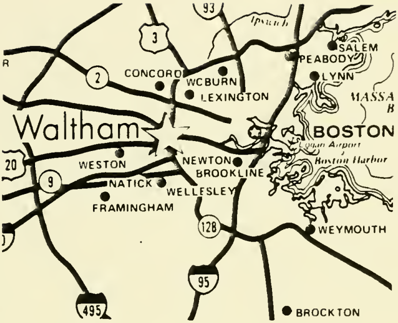
No member of or Delegate to the Congress of the United States, and no Resident Commissioner, shall be admitted to any share or part of this Contract or to any benefit to arise herefrom.

16. Interest of Contractor

The Contractor covenants that he presently has no interest and shall not acquire any interest, direct or indirect, in the above-described Project Area or any parcels therein or any other interest which would conflict in any manner or degree with the performance of his services hereunder. The Contractor further covenants that in the performance of this Contract no person having any such interest shall be employed.

17. Findings Confidential

All of the reports, information, data, etc., prepared or assembled by the Contractor under this Contract are confidential and the Contractor agrees that they shall not be made available to any individual or organization without the prior written approval of the Local Public Agency.



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